



PTO/SB/08A (07-05)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

Application Number	09/903,412
Filing Date	July 11, 2001
First Named Inventor	Shohei Koide
Art Unit	1639
Examiner Name	Teresa D. Wessendorf
Attorney Docket Number	17027.003US1

Sheet 1 of 25

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
TDW		US- 6,348,584	02-19-2002	Hodgson et al.	
		US- 6,673,901	01-09-2004	Koide	
		US- 6,703,199	03-09-2004	Koide	
		US- 6,462,189	10-08-2002	Koide	
		US- 6,391,855	05-21-2002	Blaschuk et al.	
		US- 6,818,418	11-15-2004	Lipovsek et al.	
		US- 2003/0027319	02-06-2003	Koide	
		US- 2003/0108948	06-12-2003	Koide	
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		US- 2003/0170753	09-11-2003	Koide	
		US- 2003/0186385	10-02-2003	Koide	
		US- 2004/0259155	12-23-2004	Chan et al.	
		US- 2005/0038229	02-17-2005	Lipovsek et al.	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
TDW		WO-94/24278	10-27-1994	Davis, Claude		
		WO-95/27045	10-12-1995	Smith, Rodger.G.		
		WO-94/18221	08-18-1994	Barbas et al.		
		WO-98/56915	12-17-1998	Koide, Shohei		
		WO-00/34784	06-15-2000	Lipovsek, Dasa		
		JP-8-511417	03-12-1996	Davis et al.		

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jd		WO-01/64942	09-07-01	Lipovsek et al		
↓		WO-04/019878	03-11-04	Afeyan et al.		
		WO-05/056764	06-23-05	Chen et al.		

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TDW		Alzari et al., "Three-dimensional structure of antibodies," Annu. Rev. Immunol., 1998, 555-580	
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TLW		Becktel and Schellman, "Protein stability curves," Biopolymer 1987, 26:1859-1877	
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		Boder and Wittrup, "Yeast surface display for screening combinatorial polypeptide libraries," Nat Biotechnol., 1997, 15:553-557	
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T.D.		Burke et al., Phage display of peptides and proteins, 1996, (Kay et al., Ed.), pp. 305-326, Academic Press, San Diego	
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T.W.		de Prat Gay and Fersht, "Generation of a family of protein fragments for structure-folding studies...", Biochemistry, 1994, 33:7957-7963	
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V		Dwyer et al., "High Affinity RNase S-peptide Variants Obtained by Phage Display Have a Novel "Hot-Spot" of Binding Energy," Biochemistry, 2001, 40:13491-13500	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number	09/903,412
Filing Date	July 11, 2001
First Named Inventor	Shohei Koide
Art Unit	1639
Examiner Name	Teresa D. Wessendorf
Attorney Docket Number	17027.003US1

Sheet 9

of

25

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
TW		Gribskov et al., "The codon preference plot: graphic analysis of protein coding sequences and prediction of gene expression," Nuc. Acids. Res., 1984, 12:539-549	
		Grimsley et al., Protein Sci., 1999, 8:1843-1849	
		Gronenborn et al., "A novel, highly stable fold of the immunoglobulin binding domain of Streptococcal protein G," Science, 1991, 253:657-661	
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		Grumet et al., The Journal of Cell Biology 113:1399-1412, 1991.	
		Grzesiek et al., "Correlation of backbone amide and aliphatic side-chain resonances in 13C/15N-enriched proteins...", J. Magn. Reson. B, 1993, 101:114-119	
		Grzesiek and Bax, "Correlating backbone amide and side chain resonances in larger proteins by multiple relayed triple resonance NMR," J. Am. Chem. Soc., 1992, 114:6291-6293	
		Grzesiek and Bax, "Amino acid type determination in the sequential assignment procedure of uniformly 13C/15N-enriched proteins," J. Biomol. NMR, 1993, 3:185-204	
		Gyuris et al., "Cdk2, a human G1 and S phase protein phosphatase that associates with Cdk2," Cell, 1993, 75:791-803	
		Harpez and Chothia, "Many of the immunoglobulin superfamily domains in cell adhesion molecules ...," Mol. Biol., 1994, 238:528-539	

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		Art Unit	1639
		Examiner Name	Teresa D. Wessendorf
Sheet 10	of 25	Attorney Docket Number	17027.003US1

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TW		Hawkins et al., "The contribution of contact and non-contact residues of antibody in the affinity...", Mol. Biol., 1993, 234:958-964	
		Hawkins et al., "Selection of phage antibodies by binding affinity. Mimicking affinity maturation," J. Mol. Biol., 1992, 226:889-896	
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		Hendsch and Tidor, Protein Sci., 1994, 3:211-226	
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		Holliger, P., et al., ""Diabodies": Small bivalent and bispecific antibody fragments", Proc. Natl. Acad. Sci. USA, 90, 6444-6448 (1993).	
✓		Holm, L. et al., "Mapping the protein universe", Science, vol. 273, p. 595-602, (Aug. 2, 1996).	

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TW		Holm, L., et al., "FSSP: select structural ...", Science, 273(5275) :595-60 http://jura.ebi.ac.uk:8765/holm/qz?filename=/data/research/fssp/lfnf.fssp , 3 pages (1996)	
		Honda et al., "Fragment reconstitution of a small protein: folding energetics of the reconstituted immunoglobulin...", Biochemistry, 1999, 38:1203-1213	
		Hu, S., et al., "Minibody: A Novel Engineered Anti-Carcinoembryonic Antigen Antibody Fragment (Single-Chain Fv-CH3) ...", Cancer Research, 56, 3055-3061 (1996).	
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		Janda, K.D., et al., "Chemical Selection for Catalysis in Combinatorial Antibody Libraries", Science, 275, 945-948 (1997).	
		Johnson and Blevins, J. Biomol. NMR, 1994, 4:603-614	
		Johnsson and Varshavsky, "Split ubiquitin as a sensor of protein interactions in vivo," Proc Natl Acad Sci USA, 1994, 91:10340-10344	
✓		Jones, "The immunoglobulin superfamily," Curr. Opinion Struct. Biol., 1993, 3:846-852	

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Sheet 12

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tdw		Jones et al., "Replacing the complementarity-determining regions in a human antibody with those from a mouse," Nature, 1986, 321:522-525	
		Jourdan and Searle, "Cooperative assembly of a nativelylike ubiquitin structure through peptide fragment complexation...", Biochemistry, 2000, 39:12355-123640	
		Kabsch and Sander, "Dictionary of protein secondary structure: pattern recognition of hydrogen-bonded and geometrical features," Biopolymers, 1983, 22:2577-2637	
		Kamtekar et al., "Protein design by binary patterning of polar and nonpolar amino acids," Science, 1993, 262(5140):1680-1685	
		Kapust et al., "Tobacco etch virus protease: mechanism of autolysis and rational design of stable mutants with wildtype catalytic proficiency," Protein Eng., 2001, 14:993-1000	
		Kauzmann, Adv. Prot. Chem., 1959, 14:1-63	
		Kay, "Field gradient techniques in NMR spectroscopy," Curr. Opinion Struct. Biol., 1995, 5:674-681	
		Kay et al., "Pure absorption gradient enhanced heteronuclear single quantum correlation spectroscopy with improved sensitivity," J. Am. Chem. Soc., 1992, 114:10663-10665	
		Kay et al., "Backbone dynamics of proteins as studied by 15N inverse detected heteronuclear NMR spectroscopy...", Biochemistry, 1989, 28:8972-8979	
✓		Kay, "Pulsed-Field Gradient-Enhanced Three-Dimensional NMR Experiment for Correlating...", J. Am. Chem. Soc. 1993, 115:2055-2057.	

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TDW		Kay et al., "A Gradient-Enhanced HCCH-TOCSY Experiment for Recording Side-Chain 1H and 13C Correlations in H2O Samples of Proteins," J. Magn. Reson. B, 1993, 101:333-337	
		Kippen et al., "Folding of barnase in parts," Biochemistry, 1994, 33:3778-3786	
		Kohn et al., "A new general method for the biosynthesis of stable isotope-enriched peptides using a decahistidine-tagged ...," J. Biomol. NMR, 1998, 12:109-121	
		Koide et al., "Characterization of a folding intermediate of apoplastcyanin trapped by proline isomerization," Biochemistry, 1993, 284:12299-12310	
		Koide et al., "The fibronectin type III domain as a scaffold for novel binding proteins," J. Mol. Biol., 1998, 284:1141-1151	
A		Koide, S., et al., "Directed Evolution...", Dept. of Biochemistry and Biophysics, University of Rochester Medical Center, Rochester, NY 14642. FASEB J. 11 No. 9, PA1155 (1997)	
		Koide et al., Biochemistry 1999, 38:4757-4767	
JK		Koide et al., "Stabilization of a fibronectin type III domain by the removal of unfavorable electrostatic...", Biochemistry, 2001, 40:10326-10333	

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Sheet 14 of 25

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TW		Koide et al., "Probing protein conformational changes in living cells by using designer binding proteins: Application to the estrogen receptor," PNAS, 2002, 99:1253-1258	
		Komblitt et al., "Primary structure of human fibronectin: differential splicing may generate at least 10 polypeptides from a single gene," EMBO J., 1985, 4:1755-1759	
		Kraulis, "MOLSCRIPT: a program to produce both detailed and schematic plots of protein structures" J. Appl. Cryst., 1991, 24:946-950	
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		Kunkel, "Rapid and efficient site-specific mutagenesis without phenotypic selection." Proc. Natl. Acad. Sci. USA, 1985, 82:488-492	
		Ladurner et al., "Complementation of peptide fragments of the single domain protein chymotrypsin inhibitor 2," J Mol Biol., 1997, 273:317-329	
		Lazar et al., Molecular and Cellular Biology 8:1247-1252, 1988. 8(3):1247-1252	
		Leahy et al., Cell, 1996, 84:155-164	
✓		Leahy et al., "Structure of a fibronectin type III domain from tenascin phased by MAD analysis of the selenomethionyl protein," Science, 1992, 258:987-991	

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TW		Lee, G., et al., "Strong Inhibition of Fibrinogen Binding to Platelet Receptor .alpha.. sub.IIb.beta..sub.3 by RGD Sequences...", Protein Engineering, 6, 745-754 (1993).	
^		Lee et al., "Three-dimensional solution structure of a single zinc finger DNA-binding domain," Science, 1989, 245:635-637	
		Lee et al., "A pulsed field gradient isotope-filtered 3D 13C HMQC-NOESY experiment for extracting intermolecular NOE contacts...", FEBS Lett., 1994, 350:87-90	
		Lerner, R.A., et al., "Using the Proces of Reactive Immunization to Induce Catalytic Antibodies...", Acta Chemica Scandinavica, 50, 672-677 (1996).	
		Li, B., et al., "Minimization of Polypeptide Hormone", Science, 270, 1657-1660 (1995). Martin, F., et al., "The affinity-selection...", EMBO J., 13, 5303-5309 (1994).	
		Lin et al., Biochemistry 14:1559-1563, 1975	
		Litvinovich et al., "Reversible unfolding of an isolated heparin and DNA binding fragment the first type III module from fibronectin," Biochim. Biophys. Acta, 1992, 1119:57-62	
		Logan et al., "Side chain and backbone assignments in isotopically labeled proteins from two heteronuclear triple resonance experiments," FEBS Lett., 1992, 314:413-418	
		Loladze et al., Biochemistry, 1999, 38:16419-16423	
✓		Lowman et al., Biochemistry, 1991, 30:10832-10838	

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JW		Main et al., "The three-dimensional structure of the tenth type III module of fibronectin: an insight into RGD-mediated interactions," Cell, 1992, 71:671-678	
		Malakauskas and Mayo, Nat Struct Biol., 1998, 5:470-475	
		Marti-Renom, M.A., et al., "Comparative protein structure modeling of genes and genomes", Annu. Rev. Biophys. Biomol. Struct., vol. 29, 291-325, (2000).	
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		McClain et al., "Design and Characterization of a Heterodimeric Coiled Coil that Forms Exclusively...", J. Am. Chem. Soc., 2001, 123:3151-3152	
		McConnell, S.J., et al., "Tendamistat as a Scaffold...", Journal of Mol. Biol., 250, 460-470 (1995).	

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Application Number	09/903,412
Filing Date	July 11, 2001
First Named Inventor	Shohei Koide
Art Unit	1639
Examiner Name	Teresa D. Wessendorf
Attorney Docket Number	17027.003US1

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TDW		Merkel and Regan, "Modulating protein folding rates in vivo and in vitro by side-chain interactions between the parallel beta strands," J Biol Chem., 2000, 275:29200-29206	
		Metzler et al., "The three-dimensional solution structure of the SH2 domain from p55blk kinase," Biochemistry, 1996, 35:6201-6211	
		Michnick et al., "Detection of protein-protein interactions by protein fragment complementation strategies," Methods Enzymol., 2000, 328:208-230	
		Minor and Kim, "Measurement of the α -sheet-forming propensities of amino acids," Nature, 1994, 367:660-663	
		Muhandiram et al., "An enhanced-sensitivity pure absorption gradient 4D 15N,13C-edited NOESY experiment," J. Biomol. NMR, 1993, 3:463-470	
		Muller et al., "Structure of the NH-kB p50 homodimer bound to DNA," Nature, 1995, 373:311-117	
		Myers et al., Protein Sci., 1995, 4:2138-2148	
		Nicholls et al., "Protein folding and association: insights from the interfacial and thermodynamic properties of hydrocarbons," Proteins, 1991, 11:281-296	
		Nilges et al., "Determination of three-dimensional structures of proteins...", FEBS Lett., 1988, 229:317-324	
V		Nilges et al., Computational aspects of the study of biological macromolecule..., 1991, (Hoch, J. C., Poulsen, F. M. and Redfield, C., Ed.), pp. 451-455, Plenum Press, New York	

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<i>T.W.</i>		Ojennus et al., "Reconstitution of a native-like SH2 domain from disordered peptide fragments examined by multidimensional...", Protein Science, 2001, 10:2162-2175	
✓		Oakley et al., "A buried polar interaction can direct the relative orientation of helices in a coiled coil," Biochemistry, 1998, 37:12603-12610	
		O'Neil et al., Techniques in Protein Chemistry V, 1994, (Crabb, L., ed.) pp. 517-524, Academic Press, San Diego	
		O'Neil and Hoess, "Phage display: protein engineering by directed evolution," Curr. Opinion Struct. Biol., 1995, 5:443-449	
		Pabo et al., "Design and selection of novel Cys2His2 zinc finger proteins," Annu Rev Biochem., 2001, 70:313-340	
		Pace and Scholtz, "Measuring the conformational stability of a protein," Protein structure. A practical approach, 1997, (Creighton, T. E. Ed.) pp. 299-321, IRL Press, Oxford	
		Pace et al., Faseb J., 1996, 10:75-83	
		Pace et al., Biochemistry, 1992, 31:2728-2734.	
		Parmley et al., "Antibody-selectable filamentous fd phage vectors: affinity purification of target genes," Gene, 1988, 73:305-318	
✓		Pascal et al., "Nuclear magnetic resonance structure of an SH2 domain of phospholipase C-g1 complexed with a high affinity binding peptide," Cell, 1994b, 77:461-472	

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<i>TW</i>		Pascal et al., "Simultaneous acquisition of 15N-and 13C-edited NOEspectra of proteins dissolved in H2O," J. Magn. Reson. B, 1994a, 103:197-201	
		Patten et al., "Applications of DNA shuffling to pharmaceuticals and vaccines," Curr. Opin. Biotechnol. 1996, 8:724-733	
		Pelletier et al., "Oligomerization domain-directed reassembly of active dihydrofolate reductase from rationally designed fragments," Proc. Natl. Acad. Sci. USA, 1998, 95:12141	
		Perl et al., "Two exposed amino acid residues confer thermostability on a cold shock protein," Nat Struct Biol., 2000, 7:380-383	
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		Pessi, A., et al., "A designed metal-binding protein with a novel fold", Nature, 362, 367-369 (1993).	
		Pierschbacher and Ruoslahti, Nature, 1984, 309:30-33	
		Plaxco et al., Proc. Natl. Acad. Sci. USA, 1996, 93:10703-10706	
		Plaxco et al., J. Mol. Biol., 1997, 270:763-770	
<i>W</i>		Rader and Barbas, "Phage display of combinatorial antibody libraries," Curr Opin Biotechn., 1997, 18:503-508.	

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TDW		Raquet et al., "Detection of altered protein conformations in living cells," J Mol Biol., 2001, 305:927-938	
		Rees et al., "Antibody design: beyond the natural limits," Trends Biotechnol., 1994, 12:199-206	
		Roberts et al. Proc. Natl. Acad. Sci. USA, 1992, 89:2429-2433	
		Roberts et al., "Affinity maturation of proteins displayed on surface of M13 bacteriophage as major coat protein fusions," Methods Enzymol., 1996, 267:68-82	
		Rosenblum, J.S., et al., "Synthetic Antibodies", Antibody Engineering, Oxford University Press, Oxford, 89-116 (1995).	
		Suzuki, H., "Recent Advances in Abzyme Studies", J. Biochem., 115, 623-628 (1994).	
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		Sancho and Fersht, "Dissection of an enzyme by protein engineering...", J Mol Biol., 1992, 224:741-747	
		Sandhu et al., "Dual asymmetric PCR: onestep construction of synthetic genes," BioTech., 1992, 12:14-16	
✓		Santoro and Bolen, "Unfolding free energy changes determined by the linear extrapolation method. 1...", Biochemistry, 1988, 27:8063-8068	

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TDW		Savchenko et al., "Pyrococcus furiosus alpha-Amylase Is Stabilized by Calcium and Zinc," Biochemistry, 2002, 41:6193-6201	
		Sblattero and Bradbury, "Exploiting recombination in single bacteria to make large phage antibody libraries," Nat Biotechnol., 2000, 18:75-80	
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		Schiweck, W., et al., "The rational construction of an antibody against cystatin...", J. Mol. Biol., vol. 268, 934-951, (1997).	
		Schwartz et al., Proc. Natl. Acad. Sci. USA 84:6408-6411, 1987.	
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		Shusta, E.V., et al., "Directed evolution of a stable scaffold for T-cell receptor engineering", Nature Biotechnology, vol. 18, pp. 754-759 (Jul. 2000).	
		Skerra, "Engineered protein scaffolds for molecular recognition," J Mol Recognit, 2000, 13:167-187	
↓		Smith and Scott, "Libraries of peptides and proteins displayed on filamentous phage," Methods Enzymol., 1993, 217:228-257	

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		Smith and Regan, "Guidelines for protein design: The energetics of α -sheet side chain interactions," Science, 1995, 270:980-982	
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		Smith et al., "A thermodynamic scale for the α -sheet forming tendencies of the amino acids," Biochemistry, 1994, 33:5510-5517	
		Smyth and von Itzstein, "Design and synthesis of a biologically active antibody mimic based on an antibody-antigen crystal structure," Am. Chem. Soc., 1994, 116:2725-2733	
		Spector et al., Biochemistry, 2000, 39:872-879	
		Studier et al., "Use of T7 RNA polymerase to direct expression of cloned genes," Methods Enzymol., 1990, 185:60-89	
		Suzuki, "Recent advances in abzyme studies," J. Biochem., 1994, 115:623-628	
		Tasayco and Chao, "NMR study of the reconstitution of the beta-sheet of thioredoxin by fragment complementation," Proteins, 1995, 22:41-44	
✓		Tasayco et al., "Interaction between two discontinuous chain segments...", Biochemistry, 2000, 39:10613-10618	

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<i>TDW</i>		Tello et al., "Immunoglobulin superfamily interactions," Biochem. Soc. Trans., 1993, 21:943-946	
		Thomas, N.R., "Hapten Design for the Generation of Catalytic Antibodies", Applied Biochemistry and Biotechnology, 47, 345-372 (1994).	
		Timasheff, Curr. Op. Struct. Biol., 1992, 2:35-39	
		van den Beucken, T., "Building novel binding ligands to B&1 and B&2 based on human antibody single variable light chain domains", J. Mol. Biol., vol. 310, pp. 591-601 (2001)	
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		Venturini et al., Protein Peptide Letters, 1994, 1:70-75	
		Vuister and Bax, "Resolution enhancement and spectral editing of uniformly 13C-enriched proteins by homonuclear broadband 13C decoupling," J. Magn. Reson., 1992, 98:428-435	
		Vuister et al., "Increased resolution and improved spectral quality in four-dimensional 13C/13C-separated...", J. Magn. Reson. B, 1993, 101:210-213	
		Ward et al., "Binding activities of a repertoire of single immunoglobulin variable domains secreted from Escherichia coli," Nature, 1989, 341:554-546	
		Webster et al., "Antibody-antigen interactions," Curr. Opinion Struct. Biol., 1994, 4:123-129	

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		Wilson and Stanfield, "Antibody-antigen interactions," Curr. Opinion Struct. Biol., 1993, 3:113-118	
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		Winter, Greg, "Making Antibodies by Phage Display Technology", Ann. Rev. Immunol., 12, 433-455 (1994).	
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		Wittenkind and Mueller, "HNCACB, a high-sensitivity 3D NMR experiment to correlate amide-proton...", J. Magn. Reson. B, 1993, 101:201-205	
		Wittke et al., "Probing the molecular environment of membrane proteins in vivo," Mol Biol Cell., 1999, 10:2519-2530	
		Wu et al., "Length distribution of CDRH3 in antibodies," Proteins: Struct. Funct. Genet., 1993, 16:1-7	
		Yamazaki et al., "Segmental Isotope Labeling for Protein NMR Using Peptide Splicing," Journal of the American Chemical Society, 1998, 120(22):5591-5592	
✓		Yamazaki et al., "Two-Dimensional NMR Experiments for Correlating 13C-beta and...", J. Am. Chem. Soc., 1993, 115:11054	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	09/903,412
Filing Date	July 11, 2001
First Named Inventor	Shohei Koide
Art Unit	1639
Examiner Name	Teresa D. Wessendorf
Attorney Docket Number	17027.003US1

Sheet

25

of

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
TDW		Yang and Honig, Curr. Opin. Struct. Biol., 1992, 2:40-45	
		Zhang et al., "Circular permutation of T4 lysozyme," Biochemistry, 1993, 32:12311-12318	
		Zhang et al., "Backbone 1H and 15N resonance assignments of the N-terminal SH3 domain of drk...", J. Biomol. NMR, 1994, 4:845-858	
		McIntosh et al., Biochemistry, 1996, 35:9958-9966	
		Li et al., "The metal ion binding properties of calreticulin...", Biochemistry, 2001, 40, 11193-12201.	

Examiner Signature	T. D. Wessendorf	Date Considered	10/26/05
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Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
17027.003US1Application No.
09/903,412**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR § 1.98(b))

Applicant
Shohei KoideFiling Date
July 11, 2001Group Art Unit
1639**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	2003/0134386	07/17/2003	Koide			

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
							abstract	

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
<i>plu</i>	AB	Dickinson et al., "Active Site Modification of Factor VIIa Affects Interactions of the Protease Domain with Tissue Factor," J. Biol. Chem., 1997, 272:19875-19879

Examiner Signature

Date Considered

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